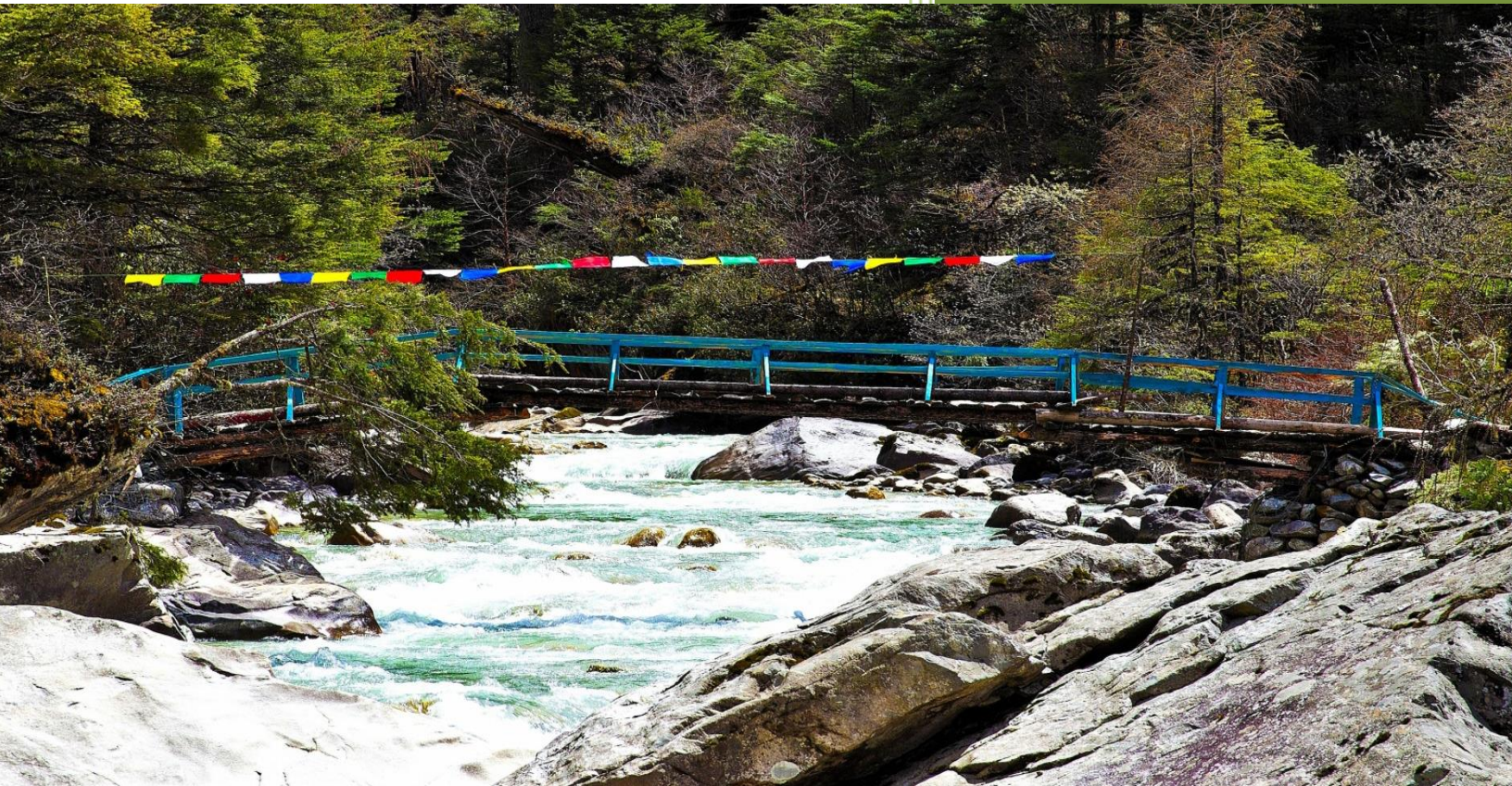




Government of India
 Ministry of Environment, Forest & Climate Change
 (EI Division)

2017-18

Annual Progress Report



Hosted by

Forests, Environment & Wildlife Management Department
 Government of Sikkim
 Gangtok

SIKKIM STATE ENVIS HUB
On Status of Environment & Related Issues

(STATE GOVERNMENT CENTER)



Government of India
Ministry of Environment, Forests & Climate Change
(EI Division)



ANNUAL PROGRESS REPORT 2017-18

(1st April 2017 – 31st March 2018)

OF

SIKKIM STATE ENVIS HUB

On Status of Environment & Related Issues
(STATE GOVERNMENT CENTER)



Hosted by
Forests, Environment & Wildlife Management Department
Government of Sikkim
Deorali, Gangtok – 737101

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SIKKIM ENVIS HUB ANNUAL PROGRESS REPORT 2017-18

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Government of India
Ministry of Environment, Forest & Climate Change
(EI Division)

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Annual Progress Report 2017-18 on Activities of Sikkim State ENVIS Centre

1 Name of Host Organization:	Forests, Environment and Wildlife Management Department, Government of Sikkim, Gangtok												
2 Assigned Subject Area:	On Status of Environment & its Related Issues												
3 Date/Month/Year of establishment of ENVIS Centre:	MoU dated 23/03/2002 Established vide letter No: 13(1)/WB/2002 – ENVIS dated: 25/06/2002.												
4 Name and designation of ENVIS Coordinator:	B. B. Gurung, Additional Director (Planning/ Environment & Soil Conservation)												
5 Has the Host Organization constituted an Advisory Committee for guiding the activities of the Centre?	Yes												
<p>Composition of the Advisory Committee:</p> <p>(Select YES or NO: if YES kindly fill the right column space; if NO kindly leave it blank)</p> <p><input type="radio"/> YES</p> <p><input checked="" type="radio"/> NO</p>	<table> <tr> <td>1. Dr. Thomas Chandy, IFS PCCF-cum Pr. Secretary</td> <td>Chairperson</td> </tr> <tr> <td>2. Shri C.S. Rao, IFS APCCF (T/HQ)</td> <td>Member</td> </tr> <tr> <td>3. Shri J.B. Subba, IFS CF (Wildlife)</td> <td>Member</td> </tr> <tr> <td>4. Dr. Gopal Pradhan Pr. Scientist (SPCB)</td> <td>Member</td> </tr> <tr> <td>5. Shri. D. T. Bhutia Addl. Director (TT), DST&CC</td> <td>Member</td> </tr> <tr> <td>6. Shri B.B. Gurung Addl. Director (P/ E&SC)-cum- Coordinator (ENVIS)</td> <td>Member Secretary</td> </tr> </table>	1. Dr. Thomas Chandy, IFS PCCF-cum Pr. Secretary	Chairperson	2. Shri C.S. Rao, IFS APCCF (T/HQ)	Member	3. Shri J.B. Subba, IFS CF (Wildlife)	Member	4. Dr. Gopal Pradhan Pr. Scientist (SPCB)	Member	5. Shri. D. T. Bhutia Addl. Director (TT), DST&CC	Member	6. Shri B.B. Gurung Addl. Director (P/ E&SC)-cum- Coordinator (ENVIS)	Member Secretary
1. Dr. Thomas Chandy, IFS PCCF-cum Pr. Secretary	Chairperson												
2. Shri C.S. Rao, IFS APCCF (T/HQ)	Member												
3. Shri J.B. Subba, IFS CF (Wildlife)	Member												
4. Dr. Gopal Pradhan Pr. Scientist (SPCB)	Member												
5. Shri. D. T. Bhutia Addl. Director (TT), DST&CC	Member												
6. Shri B.B. Gurung Addl. Director (P/ E&SC)-cum- Coordinator (ENVIS)	Member Secretary												

Office Order Constituting Advisory Committee for ENVIS Centre Sikkim



GOVERNMENT OF SIKKIM
DEPARTMENT OF FOREST, ENVIRONMENT & WILDLIFE MANAGEMENT
FOREST SECRETARIAT, DEORALI, GANGTOK 737102

No. 1119...../ADM/FEWMD

Dated: 21/03/2015

OFFICE ORDER

Consequent upon the approval of the Competent Authority, an Advisory Committee comprising of the following officers is hereby constituted for necessary guidance and review of the activities of the ENVIS Centre *on Status of Environment & Its Related Issues* hosted by the Forest, Environment and Wildlife Management Department, Government of Sikkim;

1. Dr. Thomas Chandy, IFS	PCCF-cum Pr. Secretary	Chairperson
2. Shri C.S. Rao, IFS	CCF (T/HQ)	Member
3. Shri J.B. Subba, IFS	Director (KNP/KBR)	Member
4. Dr. Gopal Pradhan	Pr. Scientist (SPCB)	Member
5. Shri. D. T. Bhutia	Additional Director (TT), DST&CC	Member
6. Shri B.B. Gurung	Joint Director (E&SC)	Member Secretary

The above Advisory Committee shall meet at least twice in a year for oversight/review of the activities of the ENVIS Centre including carrying out peer review of its information/ knowledge products, and also formulate Annual Plan of Activities for relevant prospective year.

Sd/

(Dr. Thomas Chandy) IFS

PCCF-cum-Principal Secretary

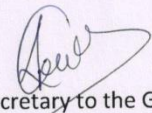
Forest, Environment & Wildlife Management Department

Memo No. 4702-4711...../ADM/FEWMD





Dated: 21/03/2015

Copy to :

- 1) All the officers concerned above
- 2) Principal Secretary to HCM
- 3) Assistant Director, MoEF (EI Division), Government of India
- 4) PS to Hon'ble Minister, FEWMD
- 5) PS to Chief Secretary
- 6) File
- 7) Guard File


Deputy Secretary to the Government

Forest, Environment & Wildlife Management Department

6 Current ENVIS Staff Structure:							
Name	Position held	Qualification and Experience	Joining Date in ENVIS Centre	Joining Date in current position	Leaving Date (if applicable)	2017-18	
						Monthly	Annual
Mr. Rajen Pradhan 	Sr. Programme Officer	B. Tech (Computer Sc.) with 11 years experience in environment information technology	17/04/2006	20/03/2009	-	35,079/-	4,20,948/-
Mr. Laxuman Darnal 	Information Officer	PG (Diploma) in Computer Sc. with 11 years experience in ENVIS	18/08/2006	20/03/2009	-	29,299/-	3,51,588/-
Ms. Renu Gurung 	IT Officer <i>(earlier IT Assistant)</i>	BA Graduate with Diploma in computer applications, 6 years in ENVIS	16/09/2011	01/04/2017	-	23,696/-	2,84,352/-
Ms. Tulsha Gurung 	Data Entry Operator	CI XII pass with Diploma in computer application, 4 years in ENVIS	02/12/2013	01/04/2017	-	11,000/-	1,32,000/- <i>Supported by the host department till 2016-17</i>

7	Mandate of the Host Organization	Mandate of the ENVIS Centre
	The primary mandate of the host department is protection & conservation of Forests, Environment & Wildlife in the State.	To collect, collate, store in retrieval system and disseminate data and information on “Status of Environment & Related Issues”

8. Databases:

8.1. Catalogue of Non-numeric Databases compiled by the ENVIS Centre till date:

Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/year of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Agriculture	Opportunities and Challenges, Agro-biodiversity of Sikkim Himalaya, Sikkim organic Mission, Soil Health Card Scheme	Descriptive	2015	Food Security and Agriculture Development Department, journals, Govt. publications	Yes
Pollution	Air, water, noise, solid waste	Descriptive	Weekly up to Feb 2018	SPCB	Yes
Biodiversity	Comprehensive database on floral and faunal diversity of Sikkim	Descriptive, geospatial	Book published in 2012, updated up to 2017	Govt publication	Yes
Climate Change in Sikkim	Daily weather data of Gangtok, district wise rainfall, monthly met data , climate synthesis report, Comprehensive study report on in-depth research by several scholars	Descriptive, geospatial	Book published in 2012, data updated up to Feb 2018	Govt publication	Yes
Demography	Analysis on Population study of Sikkim	Descriptive, graphical	2011 Census	Census of India	Yes
Disaster	History of Earthquakes, landslides, forest fires	Descriptive	2017	Disaster Management Department, Newspapers	Yes
Ecotourism	Policy, trek, permits and fees, ecological study, festivals.	Descriptive	2018	Forest deptt	Yes
Energy	Electricity and energy consumption	Descriptive	Annual up to 2015	Power and Energy Deptt	Yes
Environment	EIA, EMP, SoE report, carrying capacity study report, ECs, etc.	Descriptive	2017	Forest deptt	Yes
Forest Resources	Forest types, SFRs, JFMCs, EDCs	Descriptive	2017	FSI, State Forest deptt	Yes
Land and Water Resources	Watershed, Wetlands, Wasteland, Rivers, landslide and soil treatment, water quality of river Rately Chu – Source of Gangtok	Descriptive	2017	SAC, ISRO, Journals, Forest deptt	Yes
Wildlife	PAs, KNP, eco-sensitive and conservation zones, Management Plans, Nomination dossier of KNP for world heritage site, compensation guidelines	Descriptive	2017	Forest deptt	Yes
Soils and Minerals	Geology and Mineral Resources of Sikkim,	Descriptive	2017	Mines Minerals and Geology	Yes

Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/year of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
	Mineral reserves in Sikkim, Soil resources			Deptt	
Sericulture	Mulberry, muga and eri culture practices in Sikkim	Descriptive	2016	Forest deptt	Yes

8.2. Catalogue of Numeric and Time-series Databases compiled by the Centre till date:

Name of Database	Description (in brief)	Time Period (Starting year- Ending year) and Periodicity (annual/ monthly/ other)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Agriculture	Area, Production and Productivity of Rice, Wheat, Maize, Finger Millet, Barley, Buckwheat, Pulses, Oilseeds	Annual (2003-04 to 2014-15)	Food Security & Agriculture Development Deptt	Yes
Air Quality of Sikkim (8 locations)	PM ₁₀ , SO _x , NO _x	Annual, Monthly, Weekly (2018)	SPCB	Yes
River Water Quality	pH, BOD, T Coliform etc	Monthly (2011, 2012, 2013, 2014, 2015)	SPCB	No
Biodiversity	Statistics on species availability	Annual up to 2017	Forest deptt	Yes
Climate	Temperature, rainfall etc	Monthly, Annual 1996-2017	IMD	Yes
Demography	Demography statistics	2001, 2011	Census of India	Yes
Earthquakes	History of Earthquakes	1839 -2015	Disaster Management Deptt	Yes
Forest Fire Cases	Forest fire cases in Sikkim	2004 – 2017	Forest deptt	Yes
Electricity Consumption	Category wise consumption	Annual, 2008-09 to 2014-15	Power & energy deptt	Yes
Energy Consumption	Per capita consumption, Power from National grid, hydel power generation	Annual 2002-03 to 2014-15	Power & energy deptt	Yes
Forest Statistics	Forest cover statistics of Sikkim	1987 to 2017	FSI	Yes
Wetlands of Sikkim	Altitude wise no of lakes and area	2003 and 2017	SAC, ISRO, Ahmedabad	Yes
Mineral Reserves in Sikkim	Status of mineral development in Sikkim	Annual, 2016	Mines, Mineral and Geology Deptt	Yes
Protected Areas of Sikkim	Profile of Wildlife sanctuaries and National Park	2018	Forest deptt	Yes
Disaster	History of Earthquakes, landslides, forest fires	2017	Disaster Mgmt Deptt. Newspapers	Yes
Ecotourism	Policy, trek, permits and fees, ecological study	2018	Forest deptt	Yes
Energy	Electricity and energy consumption	Annual up to 2016	Power and Energy Deptt	Yes

8.3. New Databases developed during the Financial Year (2017-18)

8.3.1. Non-numeric Databases:

Name of Database	Description (in brief)	Data type (descriptive/graphical/geospatial/etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/year of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Biodiversity	Fishes, Lizards, Snakes, Birds, Butterflies, Bees, Carnivorous animals of KBR, Amphibians, Insects and Beetle diversity	Descriptive	2017	Govt publication	Yes
Pollution	Water Quality of Rivers	Descriptive	2017	Forest Deptt	Yes
	Industrial Air Quality	Descriptive	2017	SPCB	Yes
	Air Quality of Major Towns	Descriptive	2018	SPCB	Yes
	Hazardous Waste of Sikkim	Descriptive	2017	SPCB	Yes
	Consent Forms	Descriptive	2018	SPCB	Yes
	Noise Pollution	Descriptive	2017	SPCB	Yes
KNP	Inscription of Khangchendzonga National Park as World Heritage Site	Descriptive	2017	Forest Deptt	Yes
Ecotourism	Ecotourism zones of Sikkim	Descriptive	2017	Forest Deptt	Yes
	Organizational manual	Descriptive	2017	Forest Deptt	Yes
Solid Waste	Management Rules, Municipal Bodies and Nagar Panchayat	Descriptive	2016	Forest Deptt	Yes
ORS	Online Research Permit System	Descriptive	2017	Forest Deptt	Yes
Wildlife	Human Animal Conflict	Descriptive	2017	Forest Deptt	Yes
Disaster	Dzongu Landslide	Descriptive	2017	Forest Deptt	Yes
Forestry	Heritage Trees of Sikkim	Descriptive	2017	Forest Deptt	Yes





8.3.2. Numeric and Time-series Databases:

Name of Database	Description (in brief)	Time Period (Starting year- Ending year) and Periodicity (annual/ monthly/ other)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Pollution	Industrial Air Pollution	Monthly 2015	SPCB	Yes
	Air Quality of Major Towns	2018	SPCB	Yes
	Water Quality of Rivers	2010-2017	SPCB	Yes
	Hazardous Waste	2015-2017	SPCB	Yes
	Noise Pollution	2014, 2015, 2016, 2017	SPCB	Yes
Agriculture	Area, Production and Productivity of Major Crops	2003-04 to 2014-15	Food Security & Agriculture Dev. Deptt	Yes
River Water Quality	pH, BOD, T Coliform etc	Monthly	SPCB	No
Climate data	Daily weather report and four days forecast of Gangtok town	Daily basis	IMD	Yes
Rainfall	District wise rainfall data	2009-2017	IMD	Yes
Forestry	53 Heritage Trees of Sikkim	2017	Forest Deptt	Yes


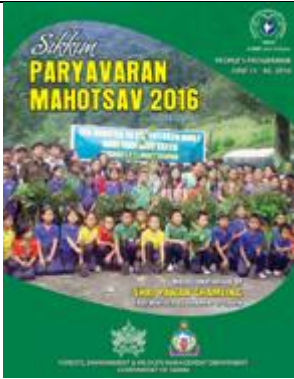
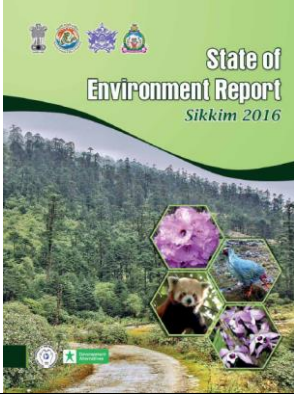
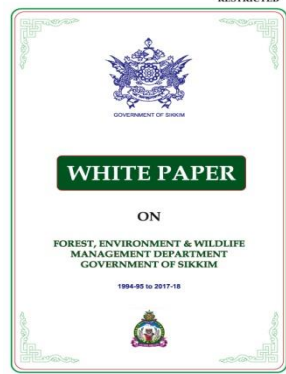
8.4. Status of data entry in ISBEID: (For State ENVIS Hubs) – As in ANNEXURE (Pg 24)

9. Information/ Knowledge Products:

9.1. ENVIS Newsletters published during the Financial Year (2017-18):

Cover snapshot	Quarter/ Volume/ Issue/ Theme Main Articles	Number of copies printed and circulated	URL of the PDF file in ENVIS website
	2017 Special Newsletter edition title PANDA Vol. 9 60 paged special edition ENVIS newsletter on scientific research articles, write-ups, observations and notes on flora, fauna, ecotourism, wildlife, climate change and other important environment issues over the year 2016-17 of Sikkim State. The newsletter is a compilation of articles received from foresters, environmentalists, scientists, scholars, students and volunteers.	2000 nos (60 Paged) <i>Supported by host organization</i> <i>Released by the Hon'ble Forest Minister of Sikkim on June 5, 2017</i>	http://sikenvs.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20-%20PANDA%20News%20Maganie%20Vol%209.pdf
	1 st Qtr (Apr-Jun) Vol. 10, Issue 1 <i>Rhododendron abhaya</i> a new species from Sikkim Himalaya, Paryavaran Mahotsav 2017, Chief Minister's Green School Rolling Trophy, World Environment Day, Ten Minutes to Earth, State Green Mission, Smritivan, First Bhairon Singh Shekhawat Lifetime Achievement Award to Sikkim CM, Green Stories from School Eco-Clubs, Nature based festivals of Sikkim,	500 nos. (12 Paged)	http://sikenvs.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202017-18%20Vol%2010%20Issue%201%20(Apr-Jun).pdf
	2 nd Qtr (Jul-Sep) Vol. 10, Issue 2 <i>Mucuna laticifera</i> a new species from Sikkim Himalaya, One World Grand Prix Award to Sikkim CM, Organic Sikkim, earthain school programme, ozone heroes, significant findlings in new wildlife survey, swachh vidyalaya puraskar, Prakriti Paryavaran Aur hum, Green march, Swachhta Hi Seva, Pictorial map of South Sikkim, Major ginsenoside contents in rhizomes of <i>Panax sokpayensis</i> and <i>Panax bipinnatifidus</i> ,	500 nos. (12 Paged)	http://sikenvs.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202017-18%20Vol%2010%20Issue%202%20(Jul-Sep).pdf
	3 rd Qtr (Oct- Dec) Vol.10, Issue 3 Amphibians of Sikkim - Two New Records for the State, Mith Trees, Minimal pollution during Deepawali festival in Sikkim, Ban on Firecrackers, Sidkeong Tulku Bird Park, a flock of broadbill flight turns deadly, Tinjurey a shot nature trek, Popularizing local medicinal plants bhakimlo and mel, Green Teachers Training	500 nos. (12 Paged)	http://sikenvs.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202017-18%20Vol%2010%20Issue%203%20(Oct-Dec).pdf

9.2. Other publications/ information products brought out during the Financial Year (2017-18):

Cover snapshot	Publication/ Product Theme(s)/ Subject Area(s)	Number of copies printed and circulated	URL of the PDF file in ENVIS website
	<p>Pamphlet on State Government's Initiative on Forestry, Environment and Wildlife Management</p> <p>Bilingual (English and Nepali) pamphlet especially published as awareness material for newly elected panchayats of the State.</p>	<p>1500 Copies each = 3000 nos</p> <p><i>Supported by host organization</i></p>	<p>http://sikenvis.nic.in/WriteReadData/UserFiles/file/Sikkim%20Environment%20Initiatives%20English.pdf <i>English</i></p> <p>http://sikenvis.nic.in/WriteReadData/UserFiles/file/Sikkim%20Environment%20Initiatives%20Nepali.pdf <i>Nepali</i></p>
	<p>Activity Book on 'Paryavaran Mahotsav 2016'</p> <p>Sikkim celebrated the 4th successive Paryavaran Mahotsav 2016. This 92 paged pictorial book highlights activities carried out throughout the State through mass public participation. The activities such as plantation drives, cleanliness drives, signature campaigns, Greenathon events and various other activities are highlighted in this publication.</p>	<p>1000 nos (92 pages)</p> <p><i>Supported by host organization</i></p> <p><i>Released by the Hon'ble Governor of Sikkim on June 25, 2017</i></p>	<p>http://sikenvis.nic.in/WriteReadData/Publication/Paryavaran%20Mahotsav%202016.pdf</p>
	<p>State of Environment Report Sikkim 2016</p> <p>This will be second SoE Report for Sikkim by ENVIS. First edition was published in 2007.</p>	<p>1000 copies under print (126 pages)</p>	<p>To be released</p>
	<p>White Paper on Forestry, Environment and Wildlife Initiatives of the State Government 1994-95 to 2017-18</p> <p>ENVIS was assigned to compile and prepare this comprehensive report for submission to the State Legislative Assembly.</p>	<p>130 copies (165 pages)</p> <p><i>Supported by host organization</i></p>	<p>Restricted document.</p> <p>Not available online</p>

9.3 Information Products published/ released during last five years (2012-13 to 2016-17):

SN	Year	Publication Title	Theme(s)/ Subject Area(s)	URL of the PDF file in ENVIS website
1.	2012-13	Newsletter PANDA Vol 5	Environmental Sustainability Index 2011, State Forest Statistics 2011, Key Statistics, Demography, Climate Change Indicators in Sikkim, Recent sightings and findings, Himalayan Landscape, Man and Macaques	http://sikenvis.nic.in/WriteReadData/Publication/Download%20PANDA%202013.pdf
2.		Environment Consciousness in Sikkim	Study report to assess the environment consciousness of citizens of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/EC%20Report_CDF_IFMR.pdf
3.		Forest for Sustainable Livelihood	A concept note on forest and sustainable livelihoods	http://sikenvis.nic.in/WriteReadData/Publication/Forest%20for%20Sustainable%20Livelihood%20%20NEAC%202012.pdf
4.		Biodiversity - All Creatures Great and Small	Biodiversity - All Creatures Great and Small. Floral and Faunal Wealth of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/DOWNLOAD%20Biodiversity%20-%20All%20Creatures%20Great%20and%20Small.pdf
5.		Study of Ecological, Socio-Economic and Livelihood Dimensions of Grazing exclusion in Protected Forests of West Sikkim	Study of Ecological, Socio-Economic and Livelihood Dimensions of Grazing exclusion in Protected Forests of West Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/Download%20Study%20Report%20on%20Grazing%20Ban%20in%20West%20Sikkim.pdf
6.		National Green Corps – Sikkim	School Eco-Club Success Stories from Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/NGC-Sikkim-Report%202012-web.pdf
7.	2013-14	Quarterly Newsletter Vol 6 Issue 1 (Apr-Jun)	Biodiversity Conservation, Oaks species of Species	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202013-14%20Vol%20VI%20Issue%201.pdf
8.		Quarterly Newsletter Vol 6 Issue 2 (Jul-Sep)	Wastelands of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Sikkim%20Newsletter%202013-14%20Vol%20VI%20Issue%202%20v2.pdf
9.		Quarterly Newsletter Vol 6 Issue 3 (Oct-Dec)	Protected Area Network in Sikkim, Gochela trek	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Sikkim%20Newsletter%202013-14%20Vol%20VI%20Issue%203%20v2.pdf
10.		Newsletter PANDA Vol 6 Issue 4	Sikkim Fishes, Magnolia taxa, Ratey chu watershed, Green lake expedition, Gangtok windstorm	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Sikkim%20Newsletter%20PANDA%20Vol%206.pdf
11.		Biodiversity Conservation	Concept note on Biodiversity Conservation	http://sikenvis.nic.in/WriteReadData/Publication/NEAC-Biodiversity%20Conservation.pdf
12.		Sidkeong Tulku Bird Park	Pamphlet on Sidkeong Tulku Bird Park, West Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/Sidkeong%20Tulku%20Bird%20Park.pdf
13.	2014-15	Quarterly Newsletter Vol 7 Issue 1 (Apr-Jun)	Paryavaran Mahotsav, State Green Schools Award, CM Rolling Trophy, Green wave, world environment Day	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202014-15%20Vol%207%20Issue%201.pdf
14.		Quarterly Newsletter Vol 7 Issue 2 (Jul-Sep)	Eco-Sensitive Zones in Sikkim, Sustainable Environment Initiative at School, Green Roads Mission	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202014-15%20Vol%207%20Issue%202.pdf
15.		Quarterly Newsletter Vol 7 Issue 3 (Oct-Dec)	Swachh Bharat Swasthh Sikkim, Solid Waste Profile of Gangtok, Legal Framework for Solid Waste	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202014-15%20Vol%207%20Issue%203.pdf

SN	Year	Publication Title	Theme(s)/ Subject Area(s)	URL of the PDF file in ENVIS website
			Management, , Healthcare Waste Management	
16.		Newsletter PANDA Vol 7 Issue 4 <i>Special edition</i>	KNP, Shapi, Yartsa gunbu, polygala arillata, myna, tinjurey ecotourism, important bird area of Sikkim, Lampokhari, gurugongmar, bird bioacoustics	http://sikenvis.nic.in/WriteReadData/Publication/Panda%20Volume%20No%207.pdf
17.		Paryavaran Mahotsav 2013	Pictorial book report on fortnightly environment festival of Sikkim June 15-30, 2013	http://sikenvis.nic.in/WriteReadData/Publication/Paryavaran%20Mahotsav%202013%20web1.pdf
18.		Environmental Initiatives of Sikkim 1995-2015 <i>Bilingual</i> (English and Nepali)	Booklet on Environmental Initiatives of Sikkim 1995-2015	http://sikenvis.nic.in/WriteReadData/Publication/Env%20Initiatives%20of%20Shri%20Pawan%20Chamling%20English%202015.pdf (ENGLISH) http://sikenvis.nic.in/WriteReadData/Publication/Env%20Initiatives%20of%20Shri%20Pawan%20Chamling%20Nepali%202015%20web.pdf (NEPALI)
19.		Sikkim State Action Plan on Climate Change	Sikkim State Action Plan on Climate Change	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20State%20Action%20Plan%20on%20Climate%20Change%20web.pdf
20.		Management Plan of Khangchendzonga National Park	Management Plan of Khangchendzonga National Park (2008-2018) (Online publication)	http://sikenvis.nic.in/WriteReadData/Publication/KNP-Management%20Plan%20-%20WEB.pdf
21.		Eco-Club Handbook	Guidelines for Eco-Club and Green Schools State Awards	http://sikenvis.nic.in/WriteReadData/Publication/NGC%20ECO%20CLUB%20HANDBOOK.pdf
22.		National Green Corps - Sikkim Report	National Green Corps - Sikkim Activity Report	http://sikenvis.nic.in/WriteReadData/Publication/NGC-Sikkim-Report-2015-web.pdf
23.		Rapid Biodiversity Survey Report -I	Rapid Biodiversity Survey Report of Sikkim- First Phase	http://sikenvis.nic.in/WriteReadData/Publication/Rapid%20Biodiversity%20Survey%20Report%20-%20I.pdf
24.	2015-16	Quarterly Newsletter Vol 8 Issue 1 (Apr-Jun)	International Conference on Conservation of Natural and Cultural values of Khangchendzonga National Park, Reconstitution of SEIAA and SEAC Sikkim, ban on firecrackers, ban on slash burning in Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%201%20(Apr-Jun).pdf
25.		Quarterly Newsletter Vol 8 Issue 2 (Jul-Sep)	Red Panda conservation breeding program in Sikkim, Inception workshop on preparation of 2nd State of Environment Report for Sikkim, Green Teacher's Training for 250 schools of Sikkim, Painting and Essay competition, ozone day, green consumer day	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%202%20(Jul-Sep).pdf
26.		Quarterly Newsletter Vol 8 Issue 3 (Oct-Dec)	Safaigiri awards, Gangtok the cleanest hill station, Okharey ecotourism carnival, Living with wildlife, India's INDC to UNFCCC, Science Express Climate Action special	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%203%20(Oct-Dec).pdf
27.		Newsletter PANDA Vol 8 Issue 4 <i>Special edition</i>	Yartsa gunbu, Sikkim himalayan rhododendron, pleione, oroxylum indicum, pagolakha wildlife sanctuary, new lake kip tso, isabelline wheatear	http://sikenvis.nic.in/WriteReadData/Publication/Panda%20Vol%208%20Final%202016.pdf

SN	Year	Publication Title	Theme(s)/ Subject Area(s)	URL of the PDF file in ENVIS website
28.		Paryavaran Mahotsav 2014	Pictorial book report on fortnightly environment festival of Sikkim June 15-30, 2014	http://sikenvi.sic.in/WriteReadData/Publication/Sikkim%20Paryavaran%20Mahotsav%202014%20-%20web.pdf
29.		Handbook on Nature based Festivals of Sikkim	Nature based Festivals of Sikkim	http://sikenvi.sic.in/WriteReadData/Publication/Hand%20Book%20of%20Nature%20Based%20Festival%20of%20Sikkim%2005-06-15%20web.pdf
30.		Rapid Biodiversity Survey Report -II	Rapid Biodiversity Survey Report of Sikkim- Second Phase	http://sikenvi.sic.in/WriteReadData/Publication/Rapid%20Biodiversity%20Survey%20Report%20-%20II.pdf
31.		Heritage Trees of Sikkim	Photo album of notified Heritage trees of Sikkim	http://sikenvi.sic.in/WriteReadData/Publication/SIKKIM%20STATE%20HERITAGE%20TREES.pdf
32.	2016-17	Newsletter PANDA Vol 9 <i>Special edition</i>	60 paged special edition ENVIS newsletter on scientific research articles, write-ups, observations and notes on flora, fauna, ecotourism, wildlife, climate change and other important environment issues over the year 2016-17 of Sikkim State.	http://sikenvi.sic.in/WriteReadData/Publication/Sikkim%20ENVIS%20-%20PANDA%20News%20Magazine%20Vol%209.pdf
33.		Quarterly Newsletter Vol 9 Issue 1 (Apr-Jun)	Paryavaran Mahotsav 2016, Heritage Trees of Sikkim, WIPRO's Earthian School Programme, Ban on Styrofoam, Ban on Packages Drinking Water Bottles in Government Functions and meetings	http://sikenvi.sic.in/WriteReadData/Publication/ENVIS%20Newsletter%202016-17%20Vol%209%20Issue%201%20(Apr-Jun).pdf
34.		Quarterly Newsletter Vol 9 Issue 2 (Jul-Sep)	KNP inscribed as UNESCO's World Heritage Site, Khangchendzonga National Park, Gangtok awarded cleanest tourist destination of India, Landslide at Mantam, Dzongu, North Sikkim	http://sikenvi.sic.in/WriteReadData/Publication/ENVIS%20Newsletter%202016-17%20Vol%209%20Issue%202%20(Jul-Sep).pdf
35.		Quarterly Newsletter Vol 9 Issue 3 (Oct-Dec)	Sustainable Development Leadership Award to Shri Pawan Chamling Chief Minister of Sikkim, Wildlife Population Estimation Study in Sikkim, Human Wildlife Conflict in Sikkim, Greater Rangit Ecotourism festival	http://sikenvi.sic.in/WriteReadData/Publication/ENVIS%20Newsletter%202016-17%20Vol%209%20Issue%203%20(Oct-Dec).pdf
36.		Environmental Initiatives of Sikkim 1994-2016	Environmental Initiatives of Sikkim 1994-2016	http://sikenvi.sic.in/WriteReadData/Publication/Environmental%20Initiatives%20of%20Sikkim%2015%20Aug%202016.pdf
37.		Nature's Marvel	A Pictorial Pocket Sized Booklet on the Faunal Diversity of Sikkim	http://sikenvi.sic.in/WriteReadData/Publication/Natures-Marvel.pdf
38.		Paryavaran Mahotsav 2015	Activity Book on 'Paryavaran Mahotsav 2015'	http://sikenvi.sic.in/WriteReadData/Publication/Final%20Paryavaran%20Mahotsav%202015.pdf

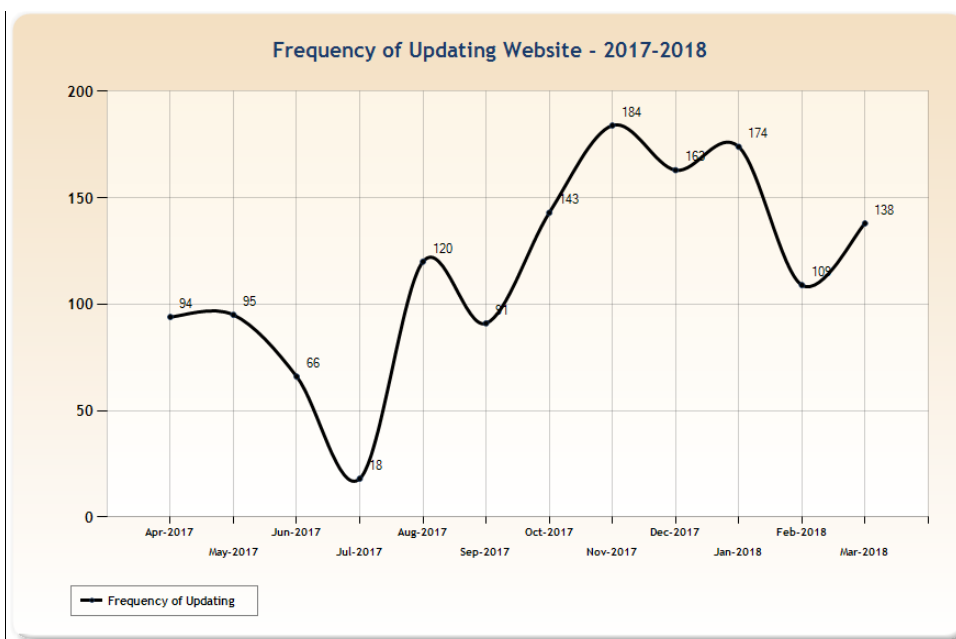
10. ENVIS Website(ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible):

10.1. URL: www.sikenvis.nic.in

10.2. Status of restructuring of Website: Restructured and made live on 26/11/2012

10.3. Frequency of updating Website 2017-18 (as on 31-Mar-2018)

The monthly average frequency of updation for 2017-18 is over **116 updates per month**. Total **1395 updates** have been made during 2017-18 as on 31st of March, 2018. The updates during June and July was hindered due to web server error.



Months	Publications	Subject Area	Glossary	Bibliography	Major Activity	Kids Centre	Upcoming Events	Latest News	Photo Gallery	Frequency of Updating
Apr-2017	2	15	0	56	0	0	8	10	0	94
May-2017	1	17	0	67	0	0	4	6	0	95
Jun-2017	2	3	0	25	0	0	1	6	29	66
Jul-2017	1	0	0	13	0	0	2	2	0	18
Aug-2017	0	14	0	76	16	0	9	5	0	120
Sep-2017	1	19	0	65	0	0	1	5	0	91
Oct-2017	2	23	0	98	12	0	5	3	0	143
Nov-2017	5	20	0	140	0	0	3	16	0	184
Dec-2017	0	5	0	147	0	0	7	4	0	163
Jan-2018	1	22	0	138	0	0	5	8	0	174
Feb-2018	2	11	0	87	0	0	2	7	0	109
Mar-2018	1	23	0	106	0	0	4	4	0	138

10.4. Subject-specific database updation (numeric/ others): 172 updates have been made during 2017-18 as on 31-Mar-2018 alone in the subject-specific database.

10.5. Publication uploaded/ updated on Website: 18 updates (including journals, pamphlets, newsletters and book publication)

11. User Engagement and Interaction (last three years)

<i>User engagement and interaction</i>		<i>FY 2015-16</i>	<i>FY 2016-17</i>	<i>FY 2017-18</i>
i.	Total number of visits	2,53,172	3,51,826	5,34,217
ii.	Number of unique visits	48,924	41,082	52,471
iii.	Reports Downloaded/Read	994	1,247	1,011
iv.	Total Number of Queries received	1400	1779	1898
v.	Number of Queries responded	1400	1779	1898
vi.	Grade received	81 'A'		

11.1 Total number of visits on Website (2017-18): 5,34,217 (As on 31-Mar-2018)

11.2 Number of unique visits on Website (2017-18): 52,471 (As on 31-Mar-2018)



Months	Visits			Unique Visitors		
	Indian	Rest of the world	Total	Indian	Rest of the world	Total
Apr-2017	12261	20548	32809	2732	2712	5444
May-2017	14810	23911	38719	2534	2185	4719
Jun-2017	15620	31904	47522	2652	2111	4763
Jul-2017	13398	28925	42322	2560	2063	4623
Aug-2017	19562	31647	51206	4523	3295	7818
Sep-2017	15671	33006	48674	3178	2646	5824
Oct-2017	16150	40222	56372	2375	2267	4642
Nov-2017	16961	36246	53206	2877	2187	5064
Dec-2017	12210	37891	50100	2462	3525	5987
Jan-2018	15855	22702	38554	2559	2440	4999
Feb-2018	6694	23999	30689	2263	2818	5081
Mar-2018	10681	33463	44142	3560	2777	6337

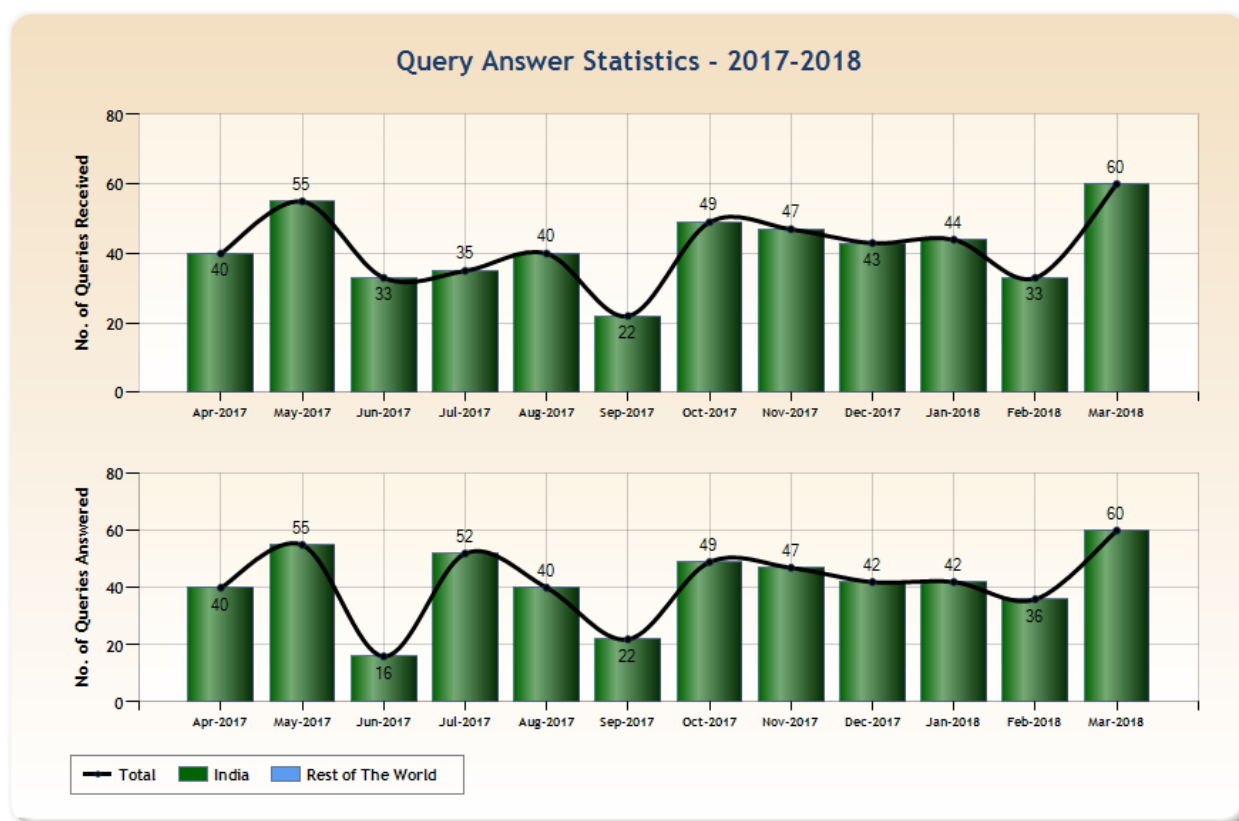
11.3 Number of reports downloaded/ read by stakeholders:

Total 1,011 downloads have been observed during 2017-18 as on 31-Mar-2018 in which about 55% of the downloadable items have been accessed from the Publications module and about 44% of the items have been downloaded from the subject area module. However, this figure is only restricted to sections of the website which require user login. The actual download figures is expected to be much more since 70% of the reports content of the website especially the subject area content have now been uploaded with direct URL of pdf files due to user demand.

Year	Kids Centre			Publications			Subject Area			Report Read/Downloaded		
	India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world	Total
01 Apr 2017 – 31 Mar 2018	1	0	1	528	25	553	438	15	453	971	40	1011

11.4 Query-Answer Statistics 2017-18:

Mode of Query Receipt	Number of Queries Received	Number of Queries Responded	Reasons for shortfalls, if any, and action taken to rectify
Online (CMS based website)	501	501	-
Email (official NIC server)	490	490	-
Postal/Telephonic (incl. hand post)	242	242	-
Physical	665	665	-
Total	1898	1898	



12. Implementation of Annual Plan of Activities of the Financial Year (2017-18):

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Centre's proposed activities 2017-18		
1. ISBEID data collection and data entry for 2017 year onwards as ongoing activity in all 17 modules.	Total 631 nos of new updates have been made during 2017-18 as on 31-Mar-2018	--
2. Publication State of Environment Report (SoER) 2016	The report is prepared and approved by the competent authority of the State Government. The report is currently under print and will be released soon.	--
3. Monitoring of key 20+ environment related parameters and reflecting in the spatial form (Pakriti maps, grid based spatial content) as per the directives of the ENVIS secretariat.	Pictorial map for South District prepared. For activities relating to GRID based spatial content, directives from the ENVIS Secretariat is awaited and will be carried from 2018-19 onwards. The district selected initially is East Sikkim for GRIDSS.	--
4. Enriching the Subject-wise database with climate change related information on glacial study, and vegetation carbon pool assessment study. Updation of Subject-wise databases modules of the website (www.sikenvis.nic.in) as an ongoing activity.	172 new updates have been made in the subject area module during 2017-18 as on 31-Mar-2018. Updates have been made on pollution statistics on weekly basis, daily climate characteristics, forestry, wildlife and environment initiatives in a comprehensive manner.	--
5. Extension and Outreach programmes at district and village level including awareness programmes at SECAS platform, Village Sensitization on the occasion of environment calendar days, cleanliness drives etc.	Extension and outreach programmes for sensitization on environmental issues were conducted on monthly basis focusing on environment calendar days such as World Environment Day, Ozone Day, SECAS platform activities at nearest railway station viz New Jal Paiguri (NJP) etc and the same was highlighted in the monthly progress report submitted to the ENVIS Secretariat.	--
6. Facilitation of online research permits in Sikkim.	This application is hosted in NIC domain and a web page in ENVIS portal under major activity section has been published to access the online permit application. This application will reduce the paper work and facilitate the research scholars as well as to track their application status.	--
7. Integration of ENVIS Services (query response, website visits) into e-taal platform and mapping of ENVIS scheme on the PFMS platform.	ENVIS Scheme has been successfully mapped in PFMS platform and EAT module is in full implementation for facilitating DBT.	As the ENVIS portal has been migrated to cloud server, integration with e-taal has been scheduled later.

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
8. Publication of Quarterly Newsletters, special edition 52 paged PANDA news magazine, and Knowledge products in the form of pocket-sized booklet/ pamphlets/ Short Video Films/ DVDs on Forest Wildlife in Sikkim and Environment Management in Sikkim.	State ENVIS Hub has published 60 paged special edition PANDA news magazine Vol 9 and quarterly newsletters vol 10, 3 issues. Besides add-on publications such as pamphlets, pictorial reports, SoE Report have also been published during 2017-18.	--
9. Integration of Bhuvan/ Bharat Maps/ Google Maps based thematic/ spatial data and information in the existing CMS based website.	Attended 2-days training –cum-workshop on GRIDSS/ GIS/ Geo-mapping of district level data at BISAG, Ahmedabad, Gujarat on September 22-23, 2017. Questionnaire for mapping district level data for EAST Sikkim drafted by the ENVIS Secretariat.	--
10. Serve as the nodal in-charge for online updation of data and information on Status of Environment and its related issues pertaining to Sikkim.	Updation and upkeep of online content in ENVIS website is a regular and ongoing activity.	--
11. Coordinate National Green Corps (NGC) programmes in Sikkim as a Nodal Resource Agency and collaborate with resource agencies like WIPRO Bangalore, CEE Guwahati and CSE new Delhi in spreading environment and education at the school level.	Training programmes for 2017 session were organized for 100 schools during July 2017 and for 200 schools during October 2017 in partnership with WIPRO and CSE, New Delhi respectively. 761 School eco-clubs strengthened by provision of environment kits and resource materials.	--
12. Support the host department in environment awareness programmes in the State with resource materials like pamphlets, brochures, handbooks, posters, banners, flyers, signages etc.	Bilingual pamphlet in English and Nepali prepared, DVDS etc on environment initiatives and policies as awareness material and distributed widely during environment calendar days.	--

OTHER REGULAR ACTIVITIES IN ACCORDANCE TO ENVIS MANDATE : 2017-18

A. Regular Activities: Web-based Environmental Information

Collection and Compilation of Information and Data

1. Development and regular updation of <i>databases</i> (descriptive, numeric, pictorial, geospatial, etc.) on the assigned subject area and regular uploading of the same in the <i>Subject Area</i> section of the ENVIS Website, after due verification/ authentication, with suitable referencing of data sources.	172 number of updates done in the subject area module of the website during 2017-18 as on 31-Mar-2018. The information content of the subject area quoted with authentic sources.	
2. Compilation of <i>Abstracts, Bibliography, News articles,</i>	1018 bibliography, 18 journals, abstracts and other publications	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
<i>Events, etc.</i> on the subject area and uploading the same in the relevant section of ENVIS Website.	uploaded in the website.	
3. Identification of data gaps and formulation with implementation of action plan to fill them.	631 new data updates on ISBEID made.	
Maintenance of ENVIS Website and User Engagement		
4. Maintaining the ENVIS Website up-to-date and user-engaging, and as an inventory of authentic and reliable information in the subject area	Centre's website has been kept up-to-date with frequency of updates averaging to 116+ updates per month. The website has now been migrated to NIC cloud server.	-
5. Query-Response/ Referral service to stakeholders.	About 1900 online, postal, email and in-person queries have been handled by the centre during 2017-18.	-
6. Developing and upgrading a Kids' Corner.	Kids corner has been made interactive by uploading quiz section, video gallery and monthly environmental activity highlights and so on. However this section has not been updated after July 2016.	Kids Sections CMS module has encountered duplicate variable problem since July 2016 and NIC has not corrected the issue despite several reminders.
7. Maintaining a disaggregated record of visitors, including unique visitors, to the Website.	Website is designed to automatically record visitor's log and is reflected in the performance chart.	-
Maintenance of ISBEID and Preparation of State of Environment (SoE) Reports		
8. Development of time series ISBEID databases on 17 parameters (except the ones that are irrelevant to the State Centre) and complement the numeric/statistical databases with analytical reports and descriptive databases on the website of the Centre.	Time series data are regularly fed in the ISBEID system. Total 631 number of updates were made during 2017-18 alone. Till date more than 7000 updates have been made in the ISBEID module since inception	
9. Completing updating ISBEID, notably by resolving the problem of lack of conformity between format of data available with State departments and ISBEID proformas.	Exhaustive exercise undergone by the centre to extract data compatible to ISBEID format from the reports collected from the secondary sources. All the modules relevant to Sikkim have data now.	
10. Devising a mechanism for sourcing for ISBEID data on a continuous basis from State Departments concerned and relevant survey and research institutes country-wide.	Nodal officers from the line departments have been designated. Workshop cum meeting of stakeholders and line departments are organized to exchange of information.	
11. Referencing and indexing of sources data in ISBEID.	Sources of data in ISBEID highlighted.	-
12. Publishing State of Environment (SoE) Reports for	SoE Report 2016 Sikkim has been prepared and approved by the State	-

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
the concerned State/UT with a periodicity of two over a five-year period.	Government. The report is currently under print and will be released accordingly.	
13. Publishing State of Environment (SoE) Reports for metro cities and hotspots.	ENVIS Centre will prepare a proposal for Hotspot Study of Gangtok during 2018-19 and submit to the ministry.	-
Publications and Value-Addition		
14. Publishing 4 <i>Newsletters</i> and uploading the same in the relevant section of ENVIS Website.	Quarterly newsletter published and circulated country wide.	
15. Processing/ analyzing data collected and bringing out value-added information Products	Data collected and analysis report is to be incorporated in the upcoming SoE report.	
16. Collecting books, reports and journals on the subject area; Uploading e-versions of books, reports, etc. on the ENVIS Website. Uploading <i>Abstracts</i> of books, reports, journals and articles of those whose e-versions are not available.	About 250 e-version of the publications relating to status of environment collected from various government sources and published online. ENVIS Sikkim is proudly the official online hosting for all government publications in Sikkim.	
Reaching-out/Networking Activities		
17. Liaison and coordination with other relevant ENVIS Centres, both State Centres and Thematic Centres, for providing data/ information links in the relevant part of the ENVIS Website (to avoid duplication and conflicts in uploaded information).	Duplicity of information in the website is carefully being handled. Centre is referring to data and information available with other centres and hyperlinks have been placed accordingly.	
18. Build linkages with other information sources in the country and abroad. Providing hyperlinks to the information sources in the relevant part of the ENVIS Website.	Hyperlinks to other information sources have been placed in relevant web contents.	
19. Maintaining a list of Experts in the subject area and uploading the same, along with updated C.V., in the relevant section of ENVIS Website.	List of experts updated in the website	
20. Coordination with the Ministry for timely dissemination of relevant and adequate information to stakeholders.	Centre is in frequent communication with the ENVIS Secretariat and other divisions in the ministry for upkeep of information and dissemination.	
21. Formulate strategic plans to generate sources of funds from corporate sector and/ or through subscriptions of Newsletters/ other publications	Sikkim ENVIS Hub was supported by WIRPO Bengaluru for promoting environment education in about 100 schools during 2017.	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
B. SPECIAL ACTIVITIES		
22. Focus on database development (numeric and descriptive), with due authentication in consultation with Line Departments/ research institutes, etc.	Centre is already in sync with 41 line departments for collection of data and information.	
23. Network and undertake outreach activities with Universities/ Research bodies/ researchers in the State, so that the ENVIS collections/ repositories can be enriched.	Centre is working in several research based activities with expert institutions such as Development Alternatives New Delhi, IORA Ecological Solutions New Delhi, Centre for Science and Environment New Delhi, CEE Guwahati and so on.	
24. Circulate Newsletters and knowledge products to as many stakeholders as possible in the State, especially policy makers/ planners.	Around 1500 copies of quarterly newsletters and other publications have been circulated to ENVIS partners, Sikkim schools, line departments, stakeholders, etc.	
25. Link its Website to other Government Websites; develop the vernacular Website; and undertake other awareness enhancing activities within the State.	Linkages developed with line department websites and other government websites as mandatory activity of the centre.	
26. Maintain a Register for keeping track of queries received and transferred/ answered.	A separate log register is kept at the centre to record visitors, queries and feedback.	
27. Build institutional repositories of various types of media related to environmental issues.	Centre has a library that houses more than 2500 reports and publications including DVD and media collection on environment issues. ENVIS centre has collected about 20 international award winning documentary films from CMS VATAVARAN.	
28. Bring out a Brochure on environmental issues to spread awareness about World Environment Day, focusing on forestry/ mining/ Climate Change/ disasters/ etc.	Centre has published several pamphlets, brochures on events and places for quick information for the users. Visitors to the centre are always gifted with such items by the centre.	

13.	New initiatives taken during the Financial Year (2017-18):	<ul style="list-style-type: none"> ✓ Prepared a pictorial map of South Sikkim ✓ Prepared State of Environment Report 2016 Sikkim, the second edition, first issue was published in 2007. ✓ Prepared an exclusive report ‘White Paper’ on Forestry, Environment and Wildlife initiatives of the State Government 1994-95 to 2017-18. ✓ Prepared GSDP proposal for 2 month course on ‘Ecotourism Manager’ in collaboration with ENVIS Ecotourism. ✓ Prepared project proposal titled “Livelihood Options and Employment Generation – Creation of New Ecotourism Opportunities in the Himalayan Ecosystem and submitted for funding under NMHS to G.B. Pant National Institute of Himalayan Environment & Sustainable Development, Almora, Uttarakand. ✓ State ENVIS Hub assisted in a process for nominating a student candidate from Sikkim School Eco-Club for participating in the GLOBE Learning Expedition at Ireland (July 1-7, 2018). Nomination submitted to EE Division (NGC) in the Ministry. ✓ Project initiated –“Preparation of Brief Documents on Wetlands of Sikkim” in conformity with the Wetlands (Conservation and Management) Rules, 2017. State ENVIS Hub to facilitate the project with an expert agency IORA Ecological Solutions Pvt. Ltd., New Delhi selected by the host organization. ✓ Partnered with WIPRO Bengaluru and CSE New Delhi for promoting environment educations at about 300 schools of Sikkim through trainings on action-based projects. ✓ Stakeholder’s consultation workshop organized with nodal officers of the line department for liaisoning of data and information to support ENVIS mandate.
14.	Date of most recent physical verification by the Ministry:	Date: 06/05/2016 by Mr. Abhay Kumar, Deputy Economic Adviser, and Mr. Amit Vashishtha, Deputy Director, MoEF, GoI (during Brain Storming Session for North Eastern ENVIS Centre, Gangtok, Sikkim)

15. Status of existing hardware:

	Hardware item	Specification	Sanction Order with Date	Date of procurement
Procured from ENVIS Grant 2013-14	Desktop Computer – 1 No	HP AIO Intel Core i7, 3.40 GHz, 1 TB HDD, 8 GB DDR3 RAM, DVR Writer, 22” display	Sanction No: 11/68/2004 – EI Dated:27/12/2013	17/02/2014
	Multifunction printer-cum-scanner-cum-copier - 1 No.	HP AIO (printer, copier, scanner) Color Laser Jet Pro MFP M176n	-do-	-do-
	UPS – 1 No	600 VA UPS for desktop computer	-do-	-do-

Hardware Procured from ENVIS grant during 2002-03	Hardware provided by the host department, Forests, Environment & Wildlife Management Department, Government of Sikkim
1. Desktop Computer – 2 Nos(P-IV, 1 GB RAM, 80 GB HDD) 2. Printer - 1 No (Laserjet black printer) 3. Scanner – 1 (600 dpi flat bed)	1. Desktop Computer – 1 Nos 2. Printer – 1 Nos 3. Scanner (Flat bed) – 1 Nos 4. All in one printer/ copier/ scanner – 1 No 5. 3 KVA inverter with battery 6. Telephone (landline 03592-280381)

16. Status of utilization of grant during the financial year 2017-18 as on 31-Mar-2018 and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount (Rs.)	Actual Expenditure (Rs.)	Reasons for Shortfall/ Excess (if any)
Recurring Annual	Manpower	11,88,884	11,88,884	-
	Others	4,65,300	4,65,300	-
	Travel	3,00,000	16,778	-
Non-Recurring	Preparation of State of Environment Report 2016-Sikkim	30,97,500	24,14,990	Report is under print

17. Issues/ hurdles faced in undertaking ENVIS activities:

17.1.	Many users have been complaining about user login failures in our system. The password recovered after login failure is complicated and difficult to remember. The password reset facility is not available for the users. Request sent to NIC several times but action on this remains pending till date.
17.2.	Data collection for ISBEID platform is challenging and painstaking due to non-availability of readymade data. At most instances, data is retrieved through rigorous and in-depth study of reports from secondary sources which is time taking and hinders timely activity.

18. Proposed Action Plan of Activities for next two years i.e 2018-19 to 2019-20

The action plan of activities for next two years is based on the mandate of the revamped ENVIS scheme and is drawn in accordance to the memorandum of cooperation between the State ENVIS Hub at Forest, Environment and Wildlife Management Department, Government of Sikkim and the EI Division of the Ministry of Environment, Forest and Climate Change, Government of India

- a. **Repository of Environmental Knowledge:** ENVIS Hub will collect information pertaining to its assigned subject area 'Status of Environment & Its Related Issues' pertaining to State of Sikkim, maintain and update the subject-specific database, and based on its capability produce value-added information, such as educational-kits on various themes including international protocols/conventions/agreements, Rules & Regulations; Legislations; Guidelines; Gazette Notifications, develop mobile apps, e-Books, environmental videos; maintain photo bank; prepare research papers/publications, compendium, abstracts and journals, case studies, success stories and directories of information on State/regional/ National level etc. The information thus collected will be disseminated through a dedicated ENVIS Hub website www.sikenviis.nic.in. Numerical data on the assigned Subject Area will be collected, compiled, processed, analysed and submitted quarterly/annually as required to the ENVIS Focal Point. Research in the form of working papers and reports would also be submitted to the ENVIS Focal Point, which would be uploaded on the ENVIS Portal after due procedure.
- b. **State of Environment (SoE) Report:** To prepare and publish State of Environment Report 2020 highlighting specific issues such as human wildlife conflict, forest fires, landslide case studies, wetlands and glacial studies, green initiatives of the State, etc., and prepare local/district/state level SoERs.
- c. **State of Environment Atlas:** District and State level maps will be created by strengthening the Management Information System (MIS) & Geographical Information System (GIS).
- d. **Grid Based Decision Support System (GRIDSS):** For sustainable management of natural resources, ENVIS Hub will carry out survey of designated districts in a phased manner in 9x9 km grid or less depending on the terrain, for effective survey of various environmental parameters such as air, water, noise, soil quality, solid, hazardous & e-waste, forest & wildlife, flora & fauna, wetlands, lakes, rivers & other water bodies, public health etc. For the survey, secondary data would be taken as base information and if required primary data would also be collected for further analysis. ENVIS Hub will coordinate with the district administration, Universities, students, ENVIS RPs, and other agencies as required.
- e. **Green Skill Development Programme (GSDP):** ENVIS Hub will coordinate all State level green skilling programmes for nature guides, para-taxonomists, and other environment fields, like waste management, Air Quality Monitoring and Testing Analyst/Technician, Soil & Water Quality Analyst/Technicians, Cleaner Production and Effluent Treatment Plant Operator, etc., with ENVIS RPs/institutes/universities/students concerned.
- f. **Community-driven Environmentally Sustainable Villages Programme (CESVP):** The programme envisages mobilizing communities on environmental issues, creating decentralized models of development empowering local communities, and building the right atmosphere in villages to adopt environmentally sustainable practices on community level.
- g. **Monitoring (Ground Truth Verification) of Schemes:** ENVIS Hubs will carry out ground truth verification of various Central Sector (CS) and Centrally Sponsored Schemes (CSS) being implemented by the Ministry, as and when required.
- h. **Extension & Outreach Programmes** on environmental information sharing, awareness, education and training of youth/ students/ stakeholders/ local people at the ground level (district/ village level), using educational kits developed by ENVIS Hub.

19. Proposed Annual Action Plan of Activities for 2018-19

The annual plan of activities for 2018-19 in summative is enumerated below;

A. ENVIS activities as per new mandate:

- i. To promote, implement and coordinate Green Skill Development Programme (GSDP).
- ii. To implement and coordinate Grid Based Decision Support System (GRIDSS) programme.
- iii. To participate, implement and coordinate Community-driven Environmentally Sustainable Village Programme (CESVP) as and when intimated by ENVIS Focal Point.

B. Ongoing/ Regular ENVIS Activities:

- i. ISBEID data collection and data entry for 2018 year onwards as ongoing activity in all 17 modules. Enriching the Subject-wise database with climate change related information on wetlands, glaciers, forestry, wildlife and so on.
- ii. Publication of Quarterly Newsletters, special edition 60-72 paged PANDA news magazine, and Knowledge products in the form of pocket-sized booklet/ pamphlets/ Short Video Films/ DVDs on Forest Wildlife in Sikkim and Environment Management in Sikkim.
- iii. Extension & Outreach programmes on environmental information sharing, awareness, education and training of youths/ students/ stakeholders/ local people at the ground level (district/ village level).
- iv. Ecological Hotspot study of Gangtok, Sikkim as a Sustainable Tourist Destination with relevance to environment impact assessment on the fragile ecosystem and recommendations.
- v. Preparation of 'Brief Document' on Wetlands of Sikkim in conformity with the Wetlands (Conservation and Management) Rules, 2017.
- vi. Monitoring of key 20+ environment related parameters and reflecting in the spatial form (Pakriti maps, grid based spatial content) as per the directives of the ENVIS secretariat.
- vii. Coordinate National Green Corps (NGC) programmes in Sikkim as a Nodal Resource Agency and collaborate with resource agencies like WIPRO Bangalore, CEE Guwahati and CSE new Delhi in spreading environment and education at the school level.
- viii. Support the host department in environment awareness programmes in the State with resource materials like pamphlets, brochures, handbooks, posters, banners, flyers, signages etc.

ANNEXURE**20. Status of data entry in ISBEID: (Sikkim State ENVIS Hub): As on 31-Mar-2018**

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
I. Adminis- trative	1. General	Name				
		No. of Districts (with name)			✓	
		No. of Mandals/ Tahsils/ Taluks (with name)	✓			✓
		No. of Blocks (with name)	✓			✓
		No. of Municipalities (with name)	✓			✓
		No. of Panchayats	✓			✓
		No. of Cities with million plus population (with name)	✓			✓
		No. of Tribal Settlements				
		Elevation above mean sea level (Maximum)	✓		✓	✓
		Elevation above mean sea level (Minimum)	✓		✓	✓
		Total geographical area	✓		✓	✓
		GDP of the state (Sector wise)				
		- Primary	2000, 2005- 2012			2000, 2005- 2012
		- Secondary	2000,200 5- 2012			2000,200 5- 2012
	- Tertiary	2000,200 5- 2012			2000,200 5- 2012	
	2. Socio Economics	No. of BPL household in millions	2006		2006	
		% of Household below poverty line	2006		2006	
	3. Climate	Average mean monthly temperature (Max.)		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Average mean monthly temperature (Min.)		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Total annual Rainfall		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2015
		Relative Humidity				2006 (E)
	4. Demography	Population (for last 4 decades - 1961 - 71 - 81- 91- 2001)	1961- 2011		1991- 2011	
		Total Population	1961- 2011		1991- 2011	
		Males Population	1961- 2011		1991- 2011	
		Females Population	1961- 2011		1991- 2011	

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Density	1961-2011		1991-2011	
		Area in	1961 - 2011		1981-2011	
		No. of females/thousand males (sex ratio)	1961-2011		1991-2011	
		% of Literacy	1961-2011		1981-2011	
		% of population attending school	2001			
		Crude Birth Rate (Nos. per 1000 population)	2001, 2011			
		Crude Death Rate (Nos. per 1000 population)	2001, 2011			
II. Infra-structure	1. Housing	Permanent	2001, 2005, 2011		2001, 2005, 2011	
		Semi- Permanent	2001, 2005, 2011		2001, 2005, 2011	
		Temporary	2001, 2005, 2011		2001, 2005, 2011	
		Average Household Size (Persons per HH)	2005		2005	
	2. Medical and Health Service	No. of Government Hospitals	1990-2018		1990-2018	
		No. of Registered private hospitals/ nursing homes	1961 - 2018		1981-2018	
	3. Transport	No. of Railway Stations				
		Length of Railway Lines				
		Length of National Highways	1998-2018			
		Length of State Highways	1990-2018		1990-2018	
		Length of other roads	1998-2001			
		No. of Domestic Airports				
	III. Energy	1. Non-Renewable	Coal power generation			
Installed Capacity						
Gas Power generation						
Installed Capacity						
Oil based power generation						
Installed Capacity						
Atomic power generation						
Installed Capacity						
Power from National Grid			2003-2016			
Installed Capacity		2003-2016				
2. Renewable		Hydel power generation	1992, 1995,			

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
			2000-2012			
		Installed Capacity	1992, 1995, 2000-2012			
		Windmill power generation				
		Installed Capacity				
		Solar photovoltaic power generation				
		Installed Capacity				
		Biogas power generation				
		Installed Capacity				
		Other biomass power generation				
		Installed Capacity				
	3. Electricity Consumption	Industrial and Commercial	2008-2016			
		Agriculture	1990-2016			
		Domestic	2008-2016			
		Others	1998-2012			
	4. Energy Consumption	LPG	2010-2014			
		Other Petroleum Products				
		Coal				
		Natural Gas				
		Other				
IV. Agriculture	1. Agriculture Area Classification	Total agricultural area				
		Area under non-agriculture use	2001-2013			
		Barren and uncultivable land	1996-2012			
		Permanent pasture / grazing land	1996-2015		1996-2013	
		Net irrigated land	1996-2013			
		New Sown area	1991, 1996-1999, 2002-2013			
		Plantation crops				
		Fallow	1991, 1996, 2005-2012			
		Area under organic farming thereof				
	2. Agriculture Production	Total production of crops	2000-2002, 2004-		2004-2015	

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
			2015			
		Yield of Kharif Crops %	2000-2002, 2004-2015		2004-2015	
		Yield of Rabi Crops %	2000-2002, 2004-2015		2004-2015	
		Yield of other crops %				
	3. Crop Production (plantation crops) (in million tons per annum)	Name				
		Production				
		Rice	1990-2016		1991-2016	
		Sowing Area	1990-1997, 2000-2016		1991-1998, 2000-2016	
		Production	1990-2016		1991-2016	
		Wheat	1992-2016		1992, 1998-2016	
		Sowing Area	1992, 2000-2016		1992, 2000-2016	
		Production	1992-2016		1992, 1998-2016	
		Pulses	1992-2016		1992, 1998-2016	
		Sowing Area	1992, 2000-2016		1992, 2001-2016	
		Production	1992-2016		1992, 1998-2016	
		Total food grains				
		Sowing Area				
		Production				
		Cotton				
		Sowing Area				
		Production				
		Jute & mesta				
		Sowing Area				
		Production				
		Sugarcane				
		Sowing Area				
		Production				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Tobacco				
		Sowing Area				
		Production				
		Oil Seeds	1992-2016		1992-2016	
		Sowing Area	1992-2016		1992-2016	
		Production	1992-2016		1992-2016	
		Cereals	1993-2016		2004-2016	
		Sowing	2000-2016		2004-2016	
		Production	1993-2016		2004-2016	
		Others	1996-2011		1998-2011	
		Sowing Area	1996, 1998, 2005-2011		1996, 1998, 2005-2011	
		Production	1996, 1998, 2005-2011		1996, 1998, 2005-2011	
	4. Fertilizer Consumption	Nitrogen				
		Phosphate				
		Potash				
		Others				
	5. Pesticide Consumption	Insecticides				
		Fungicides				
		Weedicides				
		Rodenticide				
		Fumigants				
Others						
V. Industries	1. Category of Industry	Total No. of Large Scale Industries	2012			
		Total No. of Medium Scale Industries	2001, 2004, 2012			
		Total No. of Small scale Industries	2001-2012			
		Total No. of Red Category Industries				
		Total No. of Orange Category Industries				
		Total No. of Green Category Industries				
	2. Mining & Quarrying	Iron				
		Copper	1998-2002			
		Lead	1998-2002			

Module	Sub-Module	Fields	Period for which data updated				
			State-level		District-level		
			Annual	Monthly	Annual	Monthly	
		Zinc	1998-2002				
		Nickel					
		Manganese					
		Bauxite					
		Coal					
		Other (Chromite)					
		Name of the Mineral Resources					
VI. Tourism & Heritage	1. Tourism & Heritage	Name and location of Heritage sites			✓		
		Name and location of Religious places/centres			✓		
		Name and location Archaeological monuments/sites			✓		
		Name and location of Scenic Areas			✓		
		Name and location of Tourist Resorts					
VII. Natural Resources	1. Land Use Classification	Total Geographical Area	1990-2017		1990-2017		
		Forest	1996 - 1997, 2005-2013				
		Non-Agriculture use	1996-1997, 2001-2013				
		Barren and uncultivable land	1996 - 2012				
		Permanent pastures and other grazing land	1996-2013		1996-2013		
		Miscellaneous tree crops and groves	1996-2011				
		Cultivable wasteland	1996-1997, 2001-2011				
		Fallow land other than current fallow	1996-1997, 2001-2011				
		Current fallow Net area sown	1996-1997, 2005-2011				
		Gross cropped area					
		Area sown more than once	2001-2011				
		Net irrigated area					
		Gross irrigated area					
		Others	2001-2002, 2005-				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
			2011			
	2. Land Degradation	Degraded land area	2005-2016		2006-2016	
		Degraded Irrigated land				
		Area affected by shifting cultivation	2000-2016		2000-2016	
		Deforestation rate				
		Total salt affected land				
		Salinization rate	2000-2009, 2016		2000-2009, 2016	
		Area effected by desertification				
	3. Waste Land	Gullied & or Ravenous Land %	1990-2016		1990-2016	
		Upland with or without Scrub %	2000-2011		2000-2011	
		Water Logged & marshy Land %	1990-2016		1990-2016	
		land affected by Salinity/Alkalinity Coastal/ Inland %	1990-2016		1990-2016	
		Underutilized Degraded Notified Forest Land %	2000-2011		2000-2011	
		Shifting Cultivation Area %	1990-2016		1990-2016	
		Degraded Land under Plantation Crops %	1990-2016		1990-2016	
		Degraded Pastures/Grazing Land %	1990-2016		1990-2016	
		Mining Industrial Wastelands %	1990-2016		1990-2016	
		Sands - Deserted Coastal %				
		Steep Slopping Area %	2001-2004		2001-2004	
		Barren Rocky/Stony Waste/Sheet Rocky Area %	2001-2011		2000-2011	
		Snow Covered and/or Glacial Area %	2000-2011		2000-2011	
	4. Types of Wetlands	Names of wetlands of national importance	2000-2018		2000-2018	
		Names of wetlands of international importance (Ramsar site etc.)				
		Coastal /Estuaries				
		Fresh water Lakes	2005-2015		2005-2015	
		Tanks/Ponds/Reservoirs/Dams	1997-2015		1997-2015	
		Marshes (Tidal/Non-Tidal)				
		Swamps				
		Mangroves				
	Flood Plains					

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Total Area of Wetland	1997-2011		1997-2011	
		Others				
	5. Soil Types	Black Soil				
		Red Soil				
		Desert Soil				
		Grey and Brown Soil				
		Saline & Alkaline Soil				
		Laterite Soil				
		Alluvial Soil				
		Mountain Soil	1990-2018		1990-2018	
Mix Red & Black Soil						
Peaty Soil						
VIII. Forest Resource	1. Distribution of Forest Cover	Dense Forest	1990-2016		1998-2016	
		Open Forests	1990-2016		1988-2016	
		Mangroves				
		Trees outside forests	2010-2014			
		Numbers				
		Area in				
	Non Forest	1995-2015		2013-2015		
	2. Recorded Forest	Reserved Forest	1990-2015		2002-2015	
		Protected Forest	1990-2015		2002-2015	
		Unclassed Forest	1990-2001		2002-2001	
	3. Mining in Forests	Bauxite				
		Chromite				
		Copper				
		Iron				
		Manganese				
	Others					
	4. Actual Forest Cover by Density Class	Dense Forest (Crown density Cover Area above 40%) (in ha)	1990-2016		1998-2016	
		Open Forest (Crown density 10- 40% (in ha)	1990-2016		1998-2016	
		Mangrove (in ha)				
	5. Forest Produce	Timber poles	2002, 2005-2007, 2010-2011			
		Fuel wood	1997-			

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
			2001, 2010- 2011			
		Pulp & match Wood				
		Sal seeds				
		Kandu/Bedi leaves				
		Gums & Resins				
		Cane/Rattan & Bamboo				
		Grass /Fodder				
		Drugs/Tannins				
		Spices	1990, 1995, 1988- 1999			
		Lac				
	Others	2002- 2007				
6. Joint Forest Management Committee	Name of District			2002- 2013		
	No. of JFMC	1998- 2013		2002- 2013		
IX. Water Resource	1. Source of Water	Name of River	1990- 2016			
		Total Length	1990- 2016			
		Catchment Area				
		Seasonality (Perennial/Seasonal)	1990- 2017			
		Canals (Length)				
		Reservoirs				
		Tanks, Lakes & Ponds				
		Brackish Water				
		Government Owned Canals				
		Private Canals				
		Tanks				
		Wells				
Tube Wells						
X. Ground Water Resource	1. Status of Ground Water	Total Replenishable Ground Water Resource	2008- 2010			
		Provision for industrial/ domestic/ other uses	2008- 2011			
		Available Ground Water Resource				
		Net Draft				
		Balance Ground Water				
		Level of Ground Water Development (%)				
Utilization Ground Water Resource for irrigation in Net terms	2008- 2011					

Module	Sub-Module	Fields	Period for which data updated				
			State-level		District-level		
			Annual	Monthly	Annual	Monthly	
		Over Exploited	2008-2011		2008-2011		
		Critical Area	2008-2011		2008-2011		
		Gross Draft Estimated on Pro-rata basis	NA		NA		
	2. Categorization of Water Level	Pre-Monsoon average depth to water level					
		Post Monsoon average depth to water level					
		No. of Over Exploited Area	2010-2016		2010-2016		
		total Ground Water Resource					
	3. Use of Ground Water	Quantity of ground water for irrigation					
		Available ground water for irrigation					
		Utilizable ground water for irrigation	2008-2011		2008-2011		
		Net ground water draft	2008-2011		2008-2011		
	XI. Ecology	1. Ecological Areas	Name of Biogeographical Zones	✓			
		2. Ecology Type	Name of National Parks	2006-2018			
Name of Wildlife Sanctuaries			1990-2018				
Name of Bird Sanctuaries			2005-2018				
Name of Tiger Reserves							
Name of Elephant Reserves							
Name of Biosphere Reserves			1998-2018				
Name of Protected Mangroves area (Private & Public)							
3. Botanical Gardens		Name of Botanical Garden					
		Area of Botanical Garden	1998-2018				
		Location	1998-2018				
		Uniqueness					
4. Zoological Parks		Name of Zoological Park	1998-2018				
		Area of Zoological Park	1998-2018				
		Location					
		Uniqueness					
5. Physiographic Features		Mountain Name	1994-2018				
		Height (Meter)	1994-2018				

Module	Sub-Module	Fields	Period for which data updated				
			State-level		District-level		
			Annual	Monthly	Annual	Monthly	
XII. Sanitation	1. Hygiene & Sanitation	No. of Town covered	2010-2013				
		No. of Town not covered					
		Total No. of treatment plants	2010-2013				
	2. Air Borne Disease	Type of Disease	2005-2015		2005-2015		
		Name of Disease	2005-2015		2005-2015		
		No. of Deaths	2005-2015		2005-2015		
	3. Water Borne Disease	Type of Disease	2005-2014		2005-2014		
		Name of Disease	2005-2014		2005-2014		
		No. of Deaths	2005-2014		2005-2014		
XIII. Water Pollution	1.	River Name	2001, 2006, 2008, 2010-2016	2010-2013	2001, 2006, 2008, 2010-2016	2010-2013	
		Location	2001, 2006, 2008, 2010-2016	2010-2013	2001, 2006, 2008, 2010-2016	2010-2013	
		BOD					
		COD	2001, 2006, 2008, 2010-2017	2010-2013	2001, 2006, 2008, 2010-2017	2010-2013	
		Ph	2001, 2006, 2008, 2010-2017	2010-2013	2001, 2006, 2008, 2010-2017	2010-2013	
		Total Coliform	2001, 2006, 2008, 2010-2017	2010-2013	2001, 2006, 2008, 2010-2017	2010-2013	
			Conductivity	2001, 2006, 2008, 2010-2017	2010-2013	2001, 2006, 2008, 2010-2017	2010-2013
			Lake Name	2001		2001	
			Location	2001		2001	
			BOD	2001		2001	
			COD	2001		2001	
			Ph	2001		2001	

Module	Sub-Module	Fields	Period for which data updated				
			State-level		District-level		
			Annual	Monthly	Annual	Monthly	
XIV. Air Pollution		Total Coliform					
		Conductivity					
	1. Industrial	SO ₂					
		NO _x				2010-2013	
		Suspended Particulate Matter (SPM)				2010-2013	
		Respirable Suspended Particulate Matter (RSPM)				2013	
	2. Residential	SO ₂				2013	
		NO _x				2001, 2003-2004	
		Suspended Particulate Matter (SPM)				2001, 2003-2004	
		Respirable Suspended Particulate Matter (RSPM)				2001, 2003-2004	
	3. Vehicular Pollution	No. of Vehicles	1995, 1998-2001, 2003, 2007, 2009		1995, 1998-2001, 2003, 2007, 2009	2009-2012	
		Type of Vehicles	1995, 1998-2001, 2003, 2007, 2009		1995, 1998-2001, 2003, 2007, 2009	2009-2012	
	XV. Bio- diversity	1. Flora	Total Species (RET)	1990, 2007, 2013-2014			
			Redbook species No.				
2. Fauna		Total Species (RET)	2012				
		Redbook species No.					
XVI. Waste	1. Type of Waste	Hazardous waste (HW) in t/a					
		E-waste thereof in t/a					
		Biomedical waste (BMW)	2006, 2008-2009, 2011-2013		2006		
		Municipal Solid Waste (MSW)	2005, 2011, 2012		2005, 2011		
		Plastic Waste					
		Waste Water					
		Treatment/Disposal (for all 5)					

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
	2. Clean Technology	Type of Industries				
		Name of technology used				
	3. Effluent Treatment Plant/CEPT	Name of District				
		No. of Plants				
XVII. Disaster	1. Disaster	Type of Disaster	1990-2016		1990-2016	
		Year	1990-2016		1990-2016	
		Affected districts in nos.	1990-2016		1990-2016	
		Population affected (in millions)				
		Damage in crore INR				

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Annex- II

Other Activities

**Training, Extension,
Awareness and
Outreach Activities
during 2017-18**

1. Stakeholder's Consultation Workshop held



ENVIS Sikkim at Forests, Environment & Wildlife Management Department, Government of Sikkim, Gangtok organized stakeholder's consultation workshop with more than 30 line departments for the preparation of State of Environment Report 2016 Sikkim on April 24, 2017 at Sidkeong Tulku Forest Conference Hall, Deorali, Gangtok.

2. Chief Minister's Green School Rolling Trophy and State Green Schools Awards 2017 on the occasion of World Environment Day Celebration on June 5, 2017



ENVIS Sikkim actively played a role of the resource agency in scrutinizing and screening the reports from about 150 schools for the State's most prestigious award scheme, the Chief Minister's Green School Rolling Trophy and State Green Schools Award 2017. ENVIS Centre has been playing the role of nodal agency in implementing this award scheme in the State since its inception in 2011. The 2017 awards were presented to eight schools during the State level celebration of World Environment Day on 5th June 2017 at Kaluk BAC premises, West Sikkim. Other activities included plantation drive, cultural programmes, yoga demonstration, felicitation of dedicated foresters and public address by the senior forest officials and political dignitaries.

3. Paryavaran Mahotsav 2017: Swachh Bharat Pakhwada June 15-30



ENVIS Centre played active role in coordinating the 5th successive Paryavaran Mahotsav in Sikkim duly celebrating Swachh Bharat Pakhwada from June 15 to June 30, 2017. This fortnightly event which included the 12th phase State Green Mission and 9th Phase Ten Minutes to Earth programme was carried out throughout the State. The Centre’s role was to spread mass awareness and publicity through online and print media. The centre designed and printed programme banners, posters, signages for signature campaign on green pledge, Go Green stickers for vehicles. The main objective of the program was to educate and encouraging people to be responsible towards environment and also bring awareness about different initiative taken by the government in order to preserve our ecosystem. During this fortnight, ENVIS compiled and recorded a total of 2.34 lakh seedlings planted across the State.

4. Teacher’s Orientation on WIPRO’s Earthian Schools Programme 2017

Sikkim State ENVIS, Forest Environment & Wildlife Management Department in collaboration with WIPRO Bengaluru conducted green teacher’s training programme for 100 schools across of the State on 29th July 2017 at Namchi DAC for South and West district schools and on 31st July 2017 at Forest Conference Hall, Gangtok for North and East district schools.



Picture (Top) Group photo of training session for South and West District Schools at Namchi (Below) Group photo of training session for East and North District Schools at Gangtok

5. **Swachhta Hi Seva** campaign organized at the office premises of Forest Secretariat, Gangtok, Sikkim on September 23, 2017 by taking up Green Pledge and cleanliness drive of the offices and its premises.



6. **Celebration of World Ozone Day – 30th Anniversary of Montreal Protocol**



World Ozone Day 2017 with the UNEP theme “**Caring for all life under the sun**” was observed and celebrated across the State of Sikkim on the 16th day of September 2017 with several pre-event and during the event activities. Sikkim State ENVIS Centre at Forests, Environment & Wildlife Management Department, Government of Sikkim, also functioning as a part of the State Nodal Agency for National Green Corps School Eco-Club programme coordinated and conducted the

following activities from 11th September to 16th September 2017 to commemorate the 30th anniversary of Montreal Protocol for the preservation of ozone layer that supports entire life on earth;

- Painting and Slogan writing competition at about 400 eco-club schools of the State on the theme “Protection of Ozone layer”; and submission of best entries in the ozone portal www.ozone30mp.nic.in
- Wide Publicity through ENVIS portal (<http://sikenvis.nic.in/ViewEvents.aspx?Id=5359&Year=2017>); Publicity through digital billboard at Forest Secretariat premise of Gangtok; Dissemination of posters in print, videos to schools at rural areas through block administrative centres.
- Coordination of rally/ banner campaign/ signature campaign/ morning assembly speech by school students across the State.
- Awareness/ video screening at various schools of the State; and at Forest Secretariat for schools at Gangtok, the capital town of Sikkim.
- Field Activity: Outreach interactive programme amongst students and electronic vendors/ service centers/ local people / tourists

7. Green Teacher's Training for 250 schools of Sikkim



Sikkim State ENVIS Hub organized a two day green teacher's training on environment auditing at schools focusing on water and sanitation in partnership with Centre for Science and Environment, New Delhi. The training attended by about 200 schools across the State was held at Forest Conference Hall, Gangtok on October 12-13, 2017.

8. State level Earthian Schools Award organized








Orientation of School Eco-club and State-level Awards on WIPRO's Earthian school programme was organized by ENVIS Hub at Gangtok, East Sikkim and at Namchi, south Sikkim on February 26th and 28th respectively.

9. International Day of Forests observed on theme "Forests and Sustainable Cities" at Sidkeong Tulku Forest Conference Hall, Gangtok on 21st March, 2018.



The senior officers of the host institution along with State ENVIS Hub met and interacted on the current forestry and environmental issues to commemorate the International Day of Forests. ENVIS hub shared in ppt form the poster prepared by ENVIS RP IFGTB (*circulated through ENVIS WhatsApp group*). State ENVIS hub also made screening of short documentary film "Ecosystem: Mountain, Forest and Meadow".

10. Trainings/ Meetings attending by ENVIS during 2017-18

i.	ENVIS Sikkim attended a one day training-cum orientation on PFMS on 17 th August, 2017 organized by PFMS Sikkim Unit, State Finance, Revenue & Expenditure Department at Gangtok. ENVIS Sikkim also received PFMS login credentials.	
ii.	ENVIS Sikkim participated in the hands-on training on the EAT module of PFMS on September 11-12, 2017. The hands-on training was imparted by Mr. Sourav Hazarika, Operation Manager, PFMS Sikkim Unit of State Finance, Revenue & Expenditure Department at Gangtok.	
iii.	ENVIS Sikkim participated in the ENVIS National Workshop-cum-Training on GRIDSS at BISAG, Gandhinagar, Gujarat on September 21-23, 2017	
iv.	Sikkim State ENVIS Hub participated in the video-conference with State Pollution Control Board Sikkim and NIC New Delhi officials at NIC Gangtok on October 07, 2017 on Online Consent Management & Monitoring System for State Pollution Control Board (OCMMS) for facilitating Ease of Doing Business (EoDB) initiative of the Central Government.	
v.	Meeting with Dr. D K. Agrawal, Scientist 'D' and In-charge, Botanical Survey of India (BSI), Gangtok, Sikkim in regard to Green Skill Development Programme (GSDP) on October 24, 2017.	
vi.	Sikkim State ENVIS attended 2 nd round of PFMS training on EAT module at Accounts and Administrative Institute (AATI), Gangtok on October 27, 2017 organized by State Finance, Revenue and Expenditure Department.	
vii.	Meeting with Shri Abhinay Bhandari, Consultant, Renewable Energy Application and Consultation in Himalayas (REACH) on November 6, 2017 for stakeholder partnership and exchange of information on viable renewable energy applications in Sikkim.	
viii.	Brainstorming and stakeholders interaction to discuss the preparation of project proposal for funding under NMHS in partnership ENVIS RP Ecotourism, ECOSS and TMI Gangtok on November, 2017	
ix.	Meeting with NIC New Delhi officials Mr Anil Kumar and team along with the officials of State Pollution Control Board (SPCB) on facilitation of online consent management system for Sikkim State at NIC, Gangtok on December 6, 2017.	
x.	Meeting with the SIBIN group on development of e-permit and employee management system for the host department in consultation with the Additional Secretary, Administrative division.	
xi.	Stakeholder consultation with Eco-Tourism and Conservation Society of Sikkim (ECOSS) for formulating action plan (proposal) for Global World Environment Day celebration from Jan 15 to May 15, 2018.	
xii.	Networking with UNDP Sikkim team for conceptualizing the framework for monitoring the State's Action Plan on Climate Change (SAPCC). Meeting held on March 29, 2018 at ENVIS Hub office for demonstrating ENVIS and ISBEID portal as useful tool.	

11. Official Release of ENVIS Publication 2017-18

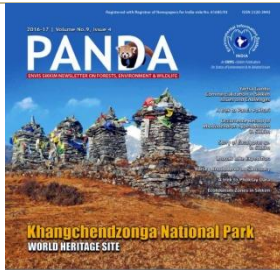


Release of 'PANDA' Newsletter Vol 9 by Hon'ble Forest Minister Shri T W Lepcha and other dignitaries during the State level celebration of World Environment Day on June 05, 2017 at Kaluk BAC premises, West Sikkim.



Release of 'Paryavaran Mahotsav 2016' pictorial activity booklet by the Hon'ble Governor Shri Shrinivas Patil during the Ten Minutes to Earth plantation programme on the 25th of June, 2017 at Raj Bhawan complex, Gangtok.

ENVIS SIKKIM PUBLICATION 2017-18



60 paged special edition Newsletter Vol 9



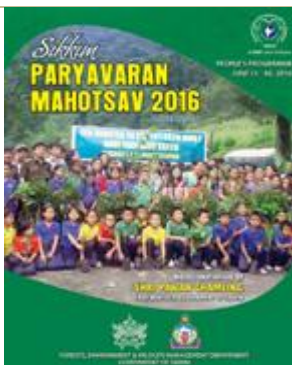
12 paged quarterly newsletter Vol 10, Issue 1



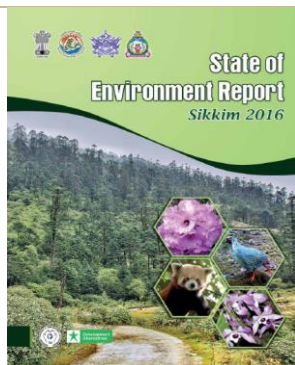
12 paged quarterly newsletter Vol 10, Issue 2



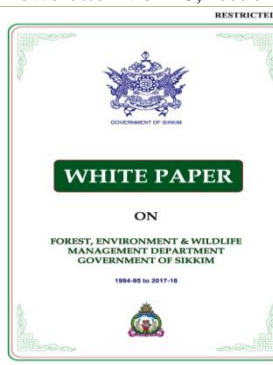
12 paged quarterly newsletter Vol 10, Issue 3



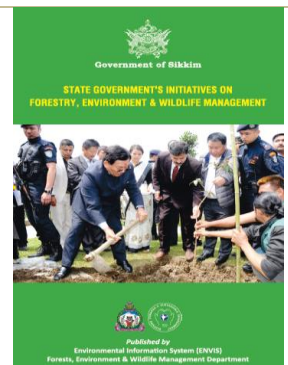
92 paged pictorial activity booklet on Paryavaran Mahotsav 2016



126 pages – State of Environment Report 2016 Sikkim (Under print)



165 pages – White Paper on Forestry, Environment and Wildlife initiatives of the State Government from 1994-95 to 2017-18 (Restricted Document)



Bilingual (English and Nepali) pamphlet on Environment Initiatives of State Government for newly elected panchayats